

Class VIII – Science

Time: 1 Hour

Maximum Marks: 30

Instructions:

- All questions are compulsory.
- Use of calculator is not permitted.
- Draw neat diagrams wherever required.

PART A

(15 × 1 = 15 marks)

- Q.1 The number of nuclei present in a zygote is
- (i) none
 - (ii) one
 - (iii) two
 - (iv) four
- Q.2 A tadpole develops into an adult frog by the process of
- (i) fertilisation
 - (ii) metamorphosis
 - (iii) embedding
 - (iv) budding
- Q.3 Sound can travel through
- (a) gases only
 - (b) solids only
 - (c) liquids only
 - (d) solids, liquids and gases
- Q.4 Voice of which of the following is likely to have minimum frequency?
- (a) Baby girl
 - (b) Baby boy
 - (c) A man
 - (d) A woman
- Q.5 The hearing range of human ear is
- (a) 20 Hz to 20,000 Hz
 - (b) less than 20 Hz
 - (c) more than 20,000 Hz
 - (d) 20 Hz to 25,000 Hz
- Q.6 Sound cannot travel through
- (a) air
 - (b) water
 - (c) glass
 - (d) vacuum
- Q.7 Reproductive age in women starts when their
- (i) menstruation starts
 - (ii) breasts start developing
 - (iii) body weight increases
 - (iv) height increases
- Q.8 Image formed by a plane mirror is
- (a) virtual, behind the mirror and enlarged
 - (b) virtual, behind the mirror and same size
 - (c) real at the surface and enlarged
 - (d) real, behind the mirror and same size
- Q.9 Part of the eye which controls light entering is
- (a) iris
 - (b) cornea
 - (c) lens
 - (d) retina

- Q.10 The substance that undergoes combustion is called
- burning
 - flame
 - charcoal
 - combustible
- Q.11 Which are essential for producing fire?
- Glass, coal, water
 - Fuel, coal, straw
 - Fire, wood, burner
 - Fuel, air, heat
- Q.12 LPG means
- Liquefied Petroleum Gas
 - Liquefied Petrol Gas
 - Liquid Petrol Godown
 - Liquid Petroleum Gas
- Q.13 Copper is
- a good conductor
 - an insulator
 - both
 - none
- Q.14 Thyroxine hormone is produced by
- adrenal gland
 - testes
 - pituitary gland
 - thyroid gland
- Q.15 Animals that give birth to young ones are called
- viviparous
 - oviparous
 - both
 - none

PART B

(5 × 3 = 15 marks)

- Q.1 List the conditions under which combustion can take place.
- Q.2
- A pendulum oscillates 40 times in 4 seconds. Find its time period and frequency.
 - A mosquito vibrates its wings at 500 vibrations per second. Find the time period.
- Q.3 Define asexual reproduction. Describe any two methods of asexual reproduction in animals.
- Q.4 Does pure water conduct electricity? If not, how can it be made conducting?
- Q.5 Differentiate between regular and diffused reflection. Does diffused reflection violate laws of reflection?

PART C

(3 × 5 = 15 marks)

- Q.1
- 4.5 kg fuel produces 180,000 kJ heat. Calculate calorific value.
 - Explain why dry leaves burn easily but green leaves do not.
- Q.2 What is noise pollution? Explain its harmful effects and methods to reduce it.
- Q.3 Fill in the blanks:
- Pupil size becomes _____ in dim light.

- (b) Electric current through solution causes _____ effects.
- (c) Unit of frequency is _____.
- (d) Liquid fuel used in homes is _____.
- (e) Coating metal using electricity is called _____.